

Numerical and Algebraic Expressions Review

Direction: Complete this review in preparation for your quiz on Friday, November 4th. This assignment is due on Friday, November 4th.

Vocabulary-

- Identify which operation each word phrase below translates to (addition, subtraction, multiplication, division)

Product _____

Quotient _____

Sum _____

Difference _____

Half _____

More than _____

- Use your notes to define:

Numerical Expression _____

Variable _____

Algebraic Expression _____

Writing Numerical Expressions

For #1-4 annotate each word phrase/scenario and write a numerical expression that represents each.

1. 5 more than the quotient of 35 and 5	2. 15 less than the product of 3 and 5
3. Nakia ate 30 slice of pizza. Mage ate half as much pizza as Nakia.	4. 5 times difference of 15 and 12

For #5-6 translate each expression into a word phrase.

5. $4 \cdot (5 + 3)$	6. $2(12) - 15$
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Writing Algebraic Expressions

For #7-10 annotate each word phrase/scenario and write a numerical expression that represents each.

7. 15 more than the product of 3 and number	8. 7 less than half of x
9. Mrs. Minera ate 5 less than 3 times as many candies as Mrs. Pike.	10. 12 times the sum of 8 and x

Evaluating Algebraic Expressions

Evaluate each expression for the values given below. Show all of your work:

$$a = 4 \quad b = 8 \quad c = 2 \quad d = 7 \quad e = 3 \quad f = 9 \quad g = 10$$

11. $ab + c$

12. $5a + b^2$

13. $7d - 2g$

14. $g(b + e)$

15. $a + b(f + g)$

16. abc